

PTQ/SB/08A (08-03)

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	09/654,542
				Filing Date	9/1/2000
				First Named Inventor:	Malcolm G. Smith, Sr.
				Examiner: Frech, Karl D.	GROUP: 2876
Sheet	1	of	14	Attorney Docket Number	ULT-005-2C3C


U.S. PATENT DOCUMENTS

Examiner Initials*	Cited No. 1	Document Number Number - Kind Code <small>210/300/300</small>	Publication Date MM-DD-YYYY	Name of Parentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear
KDF	C001	US-1,756,547	04/1930	Hansen	
	C002	US-3,677,843	7/17/1972	Reiss	
	C003	US-3,838,252	9/24/1974	Hynes et al.	
	C004	US-3,864,755	2/1975	Hargis	
	C005	US-4,058,839	11/1977	Darjany, John C.	
	C006	US-4,076,125	2/28/1978	Ohsaki et al.	
	C007	US-4,100,689	7/1978	Broune	
KDF	C008	US-4,104,682	8/1/1978	Lehner et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	<u>Foreign Patent Document</u>			Publication Date MM-DD- YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear	T ⁶
		Entry Code ³	Number ⁴	Kind Code ⁵ (if known)				
140F	C009	EP	0194675		9/1986			
140F	C010	WO	9210485		12/1992			
140F	C011	JP	10041118		4/1998			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	(One Page) Advertising Brochure, Iomega Click! PC Card Drive (40 MB Disk) Iomega Corporation, 1999
1505	Gooch et al. "A High Resolution Flying Magnetic Disk Recording System With Zero Reproduce Spacing Loss" Pages 4545-4554, IEEE Transactions on Magnetis, Volume 27, No. 6, November 1991
1506	One (1) Page Advertising Brochure, SysTECH, Wallet Size CDROM, Copyright 1999
	Three (3) Pages / Gold CD Mini ROM (Picture), Back/Front Packaging for CD Mini ROM AOL, America On Line
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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)	Application Number	09/654,542
	Filing Date	9/1/2000
	First Named Inventor:	Malcolm G. Smith, Sr.
	Examiner: Frech, Karl D.	GROUP: 2876
Sheet 3 of 14	Attorney Docket Number	ULT-005-2C3C

U.S. PATENT DOCUMENTS

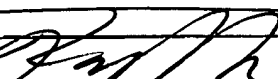
Examiner Initials*	Cited No. 1	Document Number Number - Kind Code 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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Application Number		09/654,542	
			Filing Date		9/1/2000	
			First Named Inventor:		Malcolm G. Smith, Sr.	
			Examiner: Frech, Karl D.		GROUP: 2876	
Sheet	4	of	14	Attorney Docket Number		ULT-005-2C3C
U.S. PATENT DOCUMENTS						
Examiner Initials*	Cited No. ¹	Document Number Number - Kind Code ^{2,3} (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear	
1449A	C037	US-4,756,967	7/1/1988	Hashimoto et al.		
	C038	US-4,777,540	10/11/1988	McCoy		
	C039	US-4,780,604	10/1988	Hasegawa et al.		
	C040	US-4,786,564	11/22/1988	Chen et al.		
	C041	US-4,791,283	12/13/1988	Burkhardt		
	C042	US-4,812,633	3/1989	Vogelgesang et al.		
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	C044	US-4,833,310	05/23/1989	Shimamura et al.		
	C045	US-4,851,610	07/25/1989	LeBlanc et al.		
	C046	US-4,868,373	09/1989	Opheij et al.		
	C047	US-4,877,488	10/1989	Cody et al.		
	C048	US-4,889,755	12/1989	Charbonneau		
	FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Cntry Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear	T ⁶
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
EXAMINER SIGNATURE: 				DATE CONSIDERED: 3/3/5		

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Application Number	09/654,542	
			Filing Date	9/1/2000	
			First Named Inventor:	Malcolm G. Smith, Sr.	
			Examiner: Frech, Karl D.	GROUP: 2876	
Sheet	5	of	14	Attorney Docket Number	ULT-005-2C3C


U.S. PATENT DOCUMENTS

Examiner Initials*	Cited No. 1	Document Number Number - Kind Code 2/3/4/5/6/7/8/9	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear
KOK	C049	US-4,931,623	6/5/1990	Nakamura et al.	
	C050	US-4,937,438	6/26/1990	Warwick et al.	
	C051	US-4,978,401	12/18/1990	Bonomi	
	C052	US-5,036,430	07/1991	Hills	
	C053	US-5,049,728	09/1991	Rovin	
	C054	US-5,172,282	12/1992	Ghose	
	C055	US-5,206,494	04/1993	Metzger	
	C056	US-5,227,212	07/1993	Ahlert et al.	
	C057	US-5,236,791	08/1993	Yahisa et al.	
	C058	US-5,309,388	5/3/1994	Maruyama et al.	
KOK	C059	US-5,311,003	5/10/1994	Saroya	

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Examiner Initials*	Cite No. 1	Foreign Patent Document Entry Code 3 Number 4 Kind Code 5 (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear	7 ⁶

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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PTO/SB/08A (08-03)

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Sheet	6	of	14
Attorney Docket Number		ULT-005-2C3C	

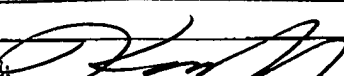
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Examiner Initials*	Cited No. 1	Document Number Number - Kind Code 2 (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear
KOF	C060	US-5,321,243	6/14/1994	Groves et al.	
	C061	US-5,336,871	8 10/9/1994	Colgate Jr.	
	C062	US-5,362,952	11/8/1994	Nair et al.	
	C063	US-5,396,369	3 5/7/1995	Deland Jr. et al.	
	C064	US-5,396,545	3/7/1995	Nair et al.	
	C065	US-5,397,886	3/14/1995	Mos et al.	
	C066	US-5,408,384	04/1995	Gannyo et al.	
	C067	US-5,410,136	4/25/1995	McIntire et al.	
	C068	US-5,421,618	6/6/1995	Okazaki et al.	
	C069	US-5,426,286	6/20/1995	Nair et al.	
	C070	US-5,431,746	7/11/1995	Manning et al.	
	C071	US-5,452,143	9/19/1995	Kamagami	
	C072	US-5,466,918	11/14/1995	Ray et al.	
KOF	C073	US-5,480,685	1/2/1996	Suzuki et al.	

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)	Application Number		09/654,542
	Filing Date		9/1/2000
	First Named Inventor:		Malcolm G. Smith, Sr.
	Examiner: Frech, Karl D.		GROUP: 2876
Sheet	7	of	14
Attorney Docket Number			ULT-005-2C3C

U.S. PATENT DOCUMENTS

Examiner Initials*	Cited No. 1	Document Number Number - Kind Code 2/3/4/5/6/7	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear
KDF	C074	US-5,492,745	2/1996	Yokoyama	
	C075	US-5,509,083	4/16/1996	Abtahi et al.	
	C076	US-5,530,232	6/25/1996	Taylor	
	C077	US-5,535,078	7/9/1996	Warwick	
	C078	US-5,557,089	9/17/1996	Hall et al.	
	C079	US-5,559,885	9/24/1996	Drexler et al.	
	C080	US-5,588,763	12/31/1996	Nubson et al.	
	C081	US-5,598,474	1/28/1997	Johnson	
	C082	US-5,609,253	3/11/1997	Goade, Sr.	
	C083	US-5,612,526	3/18/1997	Oguchi et al.	
	C084	US-5,626,970	5/1997	Hedgcoth	
	C085	US-5,637,174	6/10/1997	Field et al.	
KDF	C086	US-5,679,942	10/21/1997	Toyama	

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Examiner Initials*	Cite No. 1	Foreign Patent Document Cntry Code 2 Number 3 Kind Code 4 (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear	T*

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)	Application Number	09/654,542
	Filing Date	9/1/2000
	First Named Inventor:	Malcolm G. Smith, Sr.
	Examiner: Frech, Karl D.	GROUP: 2876
Sheet 8 of 14	Attorney Docket Number	ULT-005-2C3C


U.S. PATENT DOCUMENTS

Examiner Initials*	Cited No. 1	Document Number Number - Kind Code 2 (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear
KDF	C087	US-5,679,945	10/21/1997	Renner et al.	
	C088	US-5,698,839	12/17/1997	Jagielinski	
	C089	US-5,713,406	2/3/1998	Drury	
	C090	US-5,714,747	2/3/1998	West et al.	
	C091	US-5,720,500	2/24/1998	Okazaki et al.	
	C092	US-5,723,033	3/3/1998	Weiss	
	C093	US-5,734,154	3/31/1998	Jachimowicz et al.	
	C094	US-5,738,945	4/14/1998	Lal et al.	
	C095	US-5,748,737	5/5/1998	Daggar	
	C096	US-5,756,220	5/1998	Hoshino et al.	
	C097	US-5,763,862	6/9/1998	Jachimowicz et al.	
	C098	US-5,770,942	6/23/1998	Tagchi	
KDF	C099	US-5,777,306	7/7/1998	Masuda	

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Examiner Initials*	Cite No. 1	Foreign Patent Document Cntry Code 3 Number 4 Kind Code 5 (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear	T 6

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet

9

of

14

Application Number

09/654,542

Filing Date

9/1/2000

First Named Inventor:

Malcolm G. Smith, Sr.

Examiner: Frech, Karl D.

GROUP: 2876

Attorney Docket Number

ULT-005-2C3C

U.S. PATENT DOCUMENTS

Examiner Initials*	Cited No. ¹	Document Number Number - Kind Code ^{2(a)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear
KDF	C100	US-5,789,733	8/4/1998	Jachimowicz et al.	
	C101	US-5,825,393	10/20/1998	Koczmar et al.	
	C102	US-5,828,053	10/27/1998	Kinugasa	
	C103	US-5,834,756	11/10/1998	Gutman et al.	
	C104	US-5,843,565	12/1/1998	Davies et al.	
	C105	US-5,844,218	12/1/1998	Kawan et al.	
	C106	US-5,844,230	12/1/1998	Lalonde	
	C107	US-5,851,688	12/22/1998	Chen et al.	
	C108	US-5,852,289	12/22/1998	Masahiko	
	C109	US-5,857,079	1/5/1999	Claus et al.	
	C110	US-5,859,419	1/12/1999	Wynn	
	C111	US-5,861,220	1/19/1999	Coughlin	
KDF	C112	US-5,862,174	1/19/1999	Yokota et al.	

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KDF	C113	US-5,866,891	2/2/1999	Fujimoto et al.	
	C114	US-5,869,823	2/9/1999	Bublitz et al.	
	C115	US-5,880,445	3/9/1999	Mori et al.	
	C116	US-5,883,377	3/16/1999	Chapin, Jr.	
	C117	US-5,884,271	3/1999	Pitroda	
	C118	US-5,886,333	3/1999	Miyake	
	C119	US-5,889,273	3/1999	Goto	
	C120	US-5,895,903	4/1999	Abe et al.	
	C121	US-5,895,909	4/1999	Yoshida	
	C122	US-5,898,612	4/1999	Chen et al.	
	C123	US-5,901,012	5/1999	Ishida	
	C124	US-5,901,303	5/1999	Chew	
	C125	US-5,928,759	7/1999	Arita et al.	
KDF	C126	US-5,939,202	8/1999	Ataka et al.	

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PTO/SB/08A (08-03)

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)	Application Number	09/654,542
	Filing Date	9/1/2000
	First Named Inventor:	Malcolm G. Smith, Sr.
	Examiner: Frech, Karl D.	GROUP: 2876
Sheet 12 of 14	Attorney Docket Number	ULT-005-2C3C

U.S. PATENT DOCUMENTS

Examiner Initials*	Cited No. ¹	Document Number Number - Kind Code ^{2,3,4,5,6,7,8,9,10}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear
KDF	C140	US-6,311,893	11/2001	Liu et al.	
	C141	US-6,378,037	4/2002	Hall	
	C142	US-6,398,114	6/2002	Nishikawa et al.	
	C143	US-D264,853	6/1982	Scavino et al.	
	C144	US-D293,694	1/1988	Alden et al.	
	C145	US-D305,887	2/1990	Nishimura	
	C146	US-D328,457	8/1992	Matsuzaka	
	C147	US-D408,377	4/20/1999	Ferchau et al.	
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	C149	US-D425,876	5/2000	Malers et al.	
	C150	US-D429,733	8/2000	Jones et al.	
	C151	US-D436,991	1/2001	Morgante	
	C152	US-D447,146	8/2001	Myers	
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Examiner Initials*	Cite No. ¹	Foreign Patent Document Entry Code ² Number ³ Kind Code ^{4,5,6,7,8,9,10}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear	T ⁶
KDF	C154	FR 2505523	12/11/1982	Widmer MJF		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

KDF	Bhushan, Bharat, Tribology and Mechanics of Magnetic Storage Devices, New York: Springer-Verlag, pp. 599, 629-638
EXAMINER SIGNATURE	DATE CONSIDERED: 3/3/05

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U.S. PATENT DOCUMENTS

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KDF	C155	US-5,041,922	08/20/1991	Wood et al.	
	C156	US-5,055,155	10/08/1991	Crotty et al.	
	C157	US-5,101,097	03/31/1992	Conant	
	C158	US-5,147,732	09/15/1992	Shiroishi et al.	
	C159	US-5,180,640	01/19/1993	Yamashita et al.	
	C160	US-5,191,198	03/02/1993	Do	
	C161	US-5,204,513	04/20/1993	Steele	
	C162	US-5,206,489	04/27/1993	Warwick	
	C163	US-5,217,056	06/08/1993	Ritter	
	C164	US-5,221,838	06/22/1993	Gutman et al.	
	C165	US-5,254,843	10/19/1993	Hynes et al.	
	C166	US-5,270,523	12/14/1993	Chang et al.	
KDF	C167	US-5,286,958	02/15/1994	Smeets	

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1-00P	C168	US-5,288,942	02/22/1994	Godfrey	
	C169	US-5,880,454	03/09/1999	Monicault	
	C170	US-5,621,583	04/15/1997	Parks et al.	
	C171	US-5,739,975	04/14/1998	Parks et al.	
	C172	US-6,430,114	08/06/2002	Wang et al.	
1-00P	C173	US-6,667,105	01/13/2004	Wang et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Entry Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear	T ⁶

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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